LOGSA VTC with MG Stevenson

10 Oct 03

LOGSA

U.S. Army Materiel Command

ESSENTIAL IN PEACE, INDISPENSABLE IN WAR

Distribution Management

Retrograde / Distribution Management LOGSA Initiatives

ISSUES

- TDC provides no STAMIS feeds indicating receipt, consolidation and forward movement of shipments
- Invalid TCN structures (ZZZ) from SSA under SSF
- RF-TAG commodity data (level 6) is not been written when leaving Theater causing manual effort to identify items being retrograded
- Multiple bottlenecks identified in OIF supply pipeline (Depot, CCP, Theater Distribution)

LOGSA INITIATIVES

- Expand existing RF-TAG feeds to incorporate Commodity Data Feeds. This will assist to rectify the problem from lack of consolidation transaction feeds from TDC.
- Stand-up DM IPT at LOGSA
  - Coordinate DM Efforts with AMC, MSCs, and Pipeline Stakeholders
  - Develop Solutions; Facilitate Improvement Where Needed in the Pipeline
- Develop Improved Supply Pipeline Metrics
  - Real-Time and Predictive Metrics
  - Metrics Useful to Stakeholders at All Levels
- Develop Analytical Capabilities to Improve DM
  - Process Improvement Studies for Selected Pipeline Nodes (Ops Research Contact Teams)
  - Predict Effects of Changes to Supply Pipeline ("What-If" Analyses via Modeling & Simulation)

Stryker Brigade Combat Teams

Coordination Actions

- **July 02: Supported Millennium Challenge 02 at National Training Center**
  - **Provided Help Desk, Logistics Problem Reachback Support**
- **May 03: Coordinated With LSE Stryker Forward, 311th COSCOM, 3/2 ID and 1/25 ID at Fort Lewis**
  - **Resolved Readiness and Serial Number Issues**
- **May 03: Attended SBCT CERTEX at JRTC**
  - **Discussed DA G-4 Concern With Lack of Stryker Demand Data, and Potential Solution, With Gen Kern**
- **July 03: Met with PM Stryker**
  - **Obtained Historical DMIS Based Stryker Demand Data**
- **Aug 03: Coordinated with CASCOM ISD to set up meeting to leverage development actions**
  - **Review Calibre/DMIS Initiative**
  - **Review Current Retail STAMIS – LOGSA Connectivity**
  - **Discuss Sentinel Part Number Architecture**

LOGSA Support to SBCT Actions Completed

- Developed Vehicle ASIOE and Component Data Base for Each Stryker Variant
- Enabled SBCT Readiness Reporting by Loading 3/2 and 1/25 Supporting Retail Systems With Maintenance Master Data File (MMDF) Data
- Producing Stryker Readiness Reports for Each Stryker Model
- Assigned a RIC Code and DODAAC for Contractor Facility at Auburn, WA
  - RIC C5J
  - DODAAC CK0RK3
- Developed an Assets on Hand to Serial Number Cross Reference Table as a First Step in Enabling Stryker Serial Number Tracking

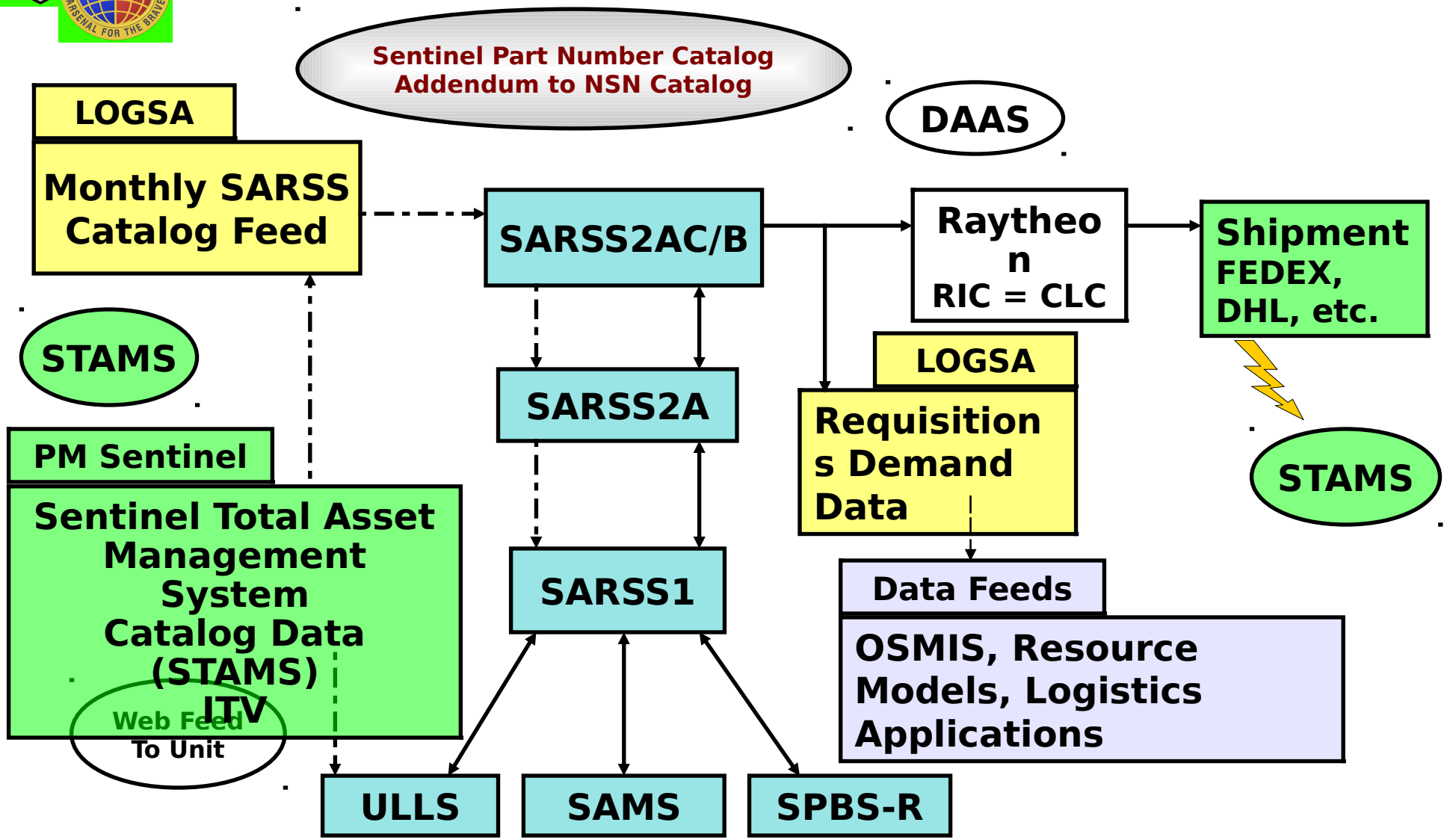
LOGSA Support to SBCT (Cont'd.) Actions Completed

- In Conjunction With 311th COSCOM and PM Stryker, Developed a Plan to Collect Stryker Unique Demand Data With Currently Available Automated Systems
- Forward Deployed LOGSA Personnel to Assist SBCT Brigades and EAB Resolve Logistics/Readiness Issues

Future/Ongoing SBCT Support

- **Build a Supplemental Stryker Part Number Catalog for Download to SARSS**
  - **Currently Done for Sentinel, ITAS and Javelin Weapon Systems**
  - **Began Initial Conversations With PM SBCT as Best Means for Facilitating This Effort**
  - **Obtained Provisioning Master Record Data From PM Stryker**
  - **Obtained Part Number Demand Data From DMIS/PM**
- **Build a Part Number to NSN Cross Reference in *Pipeline* Module of LIDB Using Stryker Catalog as Baseline**
  - **Allows for Tracking Stryker Demands and Requisitions Over Stryker Life Cycle, From ICLS to Organic Support**
- **Build Warfighter SBCT Web Capability as a One Stop Shop for Stryker Readiness, Demand, Usage, Serial Number, Assets On- Hand Information**

Sentinel Requisition Part Number Flow



SBCT Personnel Support

- On Site Support at Fort Lewis
  - Mr. Rivera Attached to LSE Forward Stryker in Support of 3/2 ID
  - Deployable Asset
- Functional Contractor at Redstone
- Technical Contractor at Redstone On-Board 30 Days
- LOGSA Has Options in Contract to Provide Additional Contractor Support for Each Additional Stryker Brigade

Autopsy Reporting

Purpose

- **Purpose**
  - **To provide an information briefing on the Logistics Transformation Task Force Initiative to Develop an Autopsy Report**
- **LTTF Decision Paper – Problem Statement**
  - **Local Unit Commander and PMs/AMC MSCs are not getting sufficient feedback from the field on major assembly and/or expensive component failures**
- **Proposed Solution**
  - **Develop an Autopsy Report focusing on formalizing the process to communicate equipment failure information to the local chain of command and the proponent PM /commodity command for high dollar components (those with a FEDLOG unit price ≥ $50K.**

Objective Autopsy Report Process

- Unit “Master Diagnostician” prepare report
- Owning Unit Commander sign and forward to Battalion Commander
- Battalion Commander review and forward through chain of command to first GO
- ULLS/GCSS-A Clerk electronically submit report through GCSS-A to Sustainment Base and LOGSA

Interim Autopsy Report Process

- **LOGSA provide Autopsy Report functionality until final GCSS-A solution is fielded – HQ AMC Tasking Jan 03**
  - **Use component demand vs failures**
  - **Establish average demand for high dollar items from historical data**
  - **Compare monthly demand to historical average**
  - **If out of tolerance, coordinate with PMs/MSCs to track actions initiated to review usage rates**
  - **Coordinate with Diminishing Manufacturing Sources/Materiel Shortages (DMSMS) to track actions related to part obsolescence (if applicable)**

Autopsy Report (Proposed)
SRS End State Metrics

- **Autopsy Report will be Designed to Capture Major Assembly Failures and Root Cause of Failure for Components with FEDLOG Price Over $50K**
- **Users will be Field Commanders, Program Managers and Weapon System Managers**

Interim Report 30 Sep 04

– **Measure 1: Actual Major Assembly Failures Versus Projected Failures Measured From LMP on a Monthly Basis**
  - **Interim Tracking will Use Demands From Existing STAMIS**

Green		Red
< 24% Over Projected Failures	Based on PM and MSC Coordination	≥ 24 % Over Projected Failures

End State 31 May 06

Recommended Metrics

Measure 2: Number of Major Assemblies That are Red for Three Months or More and have Corrective Action Initiated (I.E., Root Cause of Failure has Been Analyzed and Actions to Correct are Underway)
  - **Interim Reporting Via Manual Feedback From PMS/Weapon System Mgrs**
  - **End State Reporting Via Configuration Management Process in Enterprise**

Green	Amber	Red
≥ 90% Have "Fixes" Underway	≥ 80% but < 90% Have Fixes Underway	< 80 % Have Fixes

Proposed Autopsy Report SRS End State Metrics – Metric 3

- **Measure 3: Component Obsolescence – Percentage of major assemblies that are no longer in production and that have actions underway to address the obsolescence issue. Components will be matched against the DOD Diminishing Manufacturing Sources and Materiel Shortages (DMSMS) Identification, Notification and Flagging Operation (INFO) system to determine obsolescence status and actions to fix.**

Green	Amber	Red
≥ 90% Have "Fixes" Underway	≥ 80% but < 90% Have Fixes Underway	< 80 % Have Fixes Underway

Draft Autopsy Projected Milestones

Task Name	Completion Date
Requirements Definition	11/21/03
Deliver Software Design Description	11/21/03
Deliver Software Test Plan	11/21/03
Requirements Analysis/System Design	01/02/04
Complete Code Generation	07/30/04
Final Development Environment Test	07/30/04
Complete End User Testing	08/06/04
Deliver Software Users Manual	08/20/04
Complete End-user Corrections	08/27/04
Move to Production	09/28/04
Final Product Delivery	09/30/04

All dates are tentative. Actual completion dates may change based on the date of project initiation and changes to the scope of the effort.

Metric 3 Action?

- CG AMC requested LOGSA develop 3rd metric for component obsolescence - Mar 03
- LOGSA presented draft metric to CG Jun 03. This included working an MOA for data transfer between LOGSA and Diminishing Manufacturing Sources and Material Shortage (DMSMS) information system. CG tasked LOGSA at briefing – How does Industry handle Component Obsolescence?
- LOGSA developed Information Paper subsequent to tasker and submitted it up the chain Aug 03.
- CG AMC tasking subsequent to the Info Paper – “Set up mtg w/ ASA(ALT) to discuss.”

Back Up

Items Flagged for Metric 1

13 MONTH HISTORY

Measure 1: From LMP Actual Major Assembly Failures Versus Projected Failures Measured on a Monthly Basis

- Interim Tracking will Use Demands From Existing STAMIS
- End State will Use Failures Reported Via GCSS-A

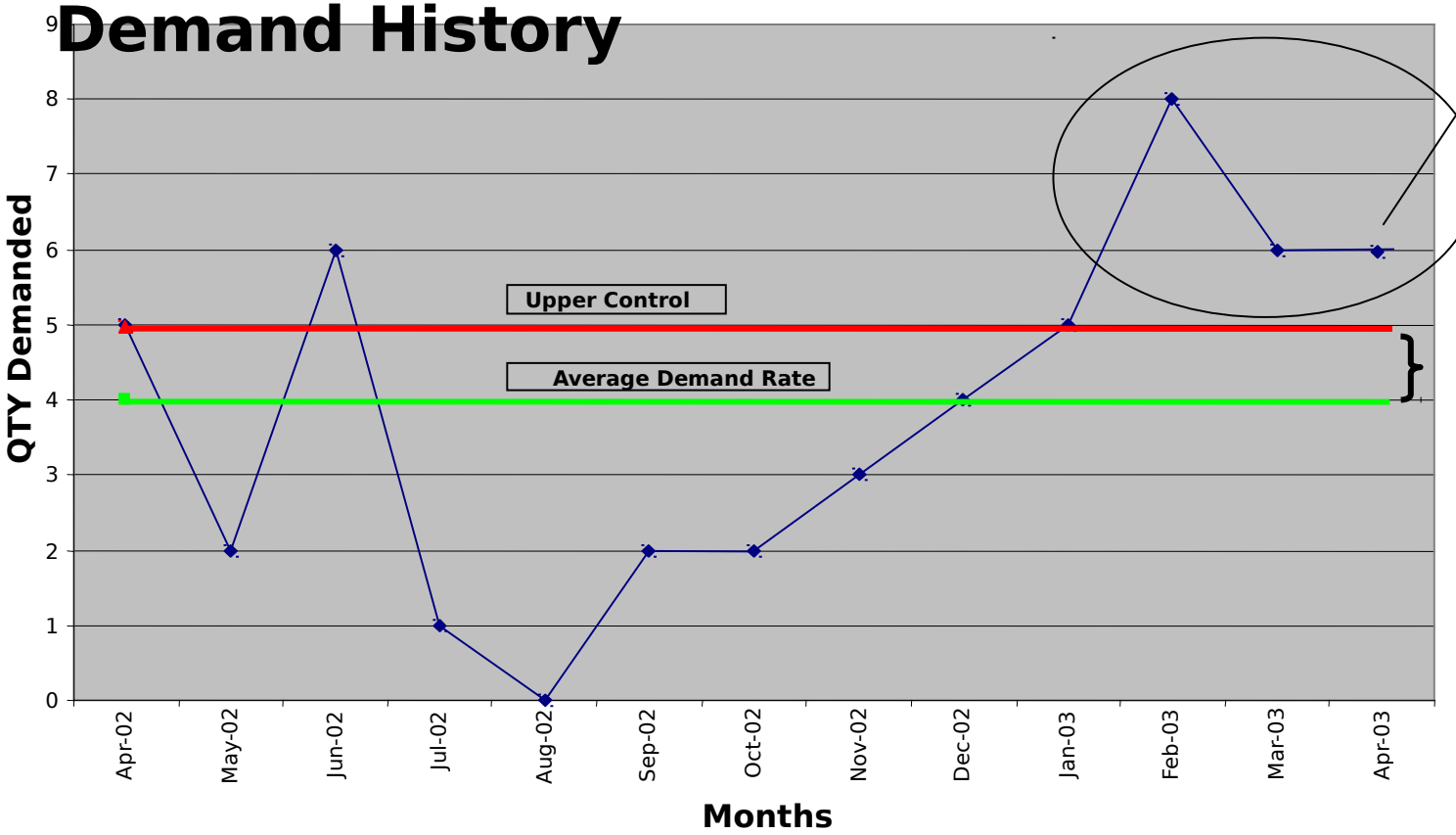
742 ITEMS > $50K

NIIN	Nomenclature	Price	SOS	Monthly Demands Feb	Mar	Apr	Avg Demand Rate
010922037	ENGINE,GAS TURBINE	$54,059	AMCOM-A	7	2	2	1.38
011873439	OPTICAL RELAY COLUM	$86,469	AMCOM-A	3	4	3	2.23
013621914	HEAD ASSEMBLY,TANK	$85,706	IOC	2	4	2	0.92
013815087	THERMAL IMAGING SYS	$71,461	IOC	4	5	4	2.08
013862786	ELECTRON TUBE	$136,460	CECOM	2	2	1	0.69
014067322	GENERATOR,TIME CODE	$113,090	CECOM	2	2	1	0.38
014092631	PDIU ASSEMBL W-CONT	$50,992	IOC	3	7	2	1.54
01							2
01							12
01							9
							2.23
014526254	POWER UNIT,DIESEL	$55,715	TACOM	8	6	5	

Green		Red
< 24% Over	Based on PM and MSC	≥ 24 % Over
Projected Failures	Coordination	Projected Failures

Metric 1

- **HET M1070 Diesel Power Unit 13 Month Demand History**



Metric 2

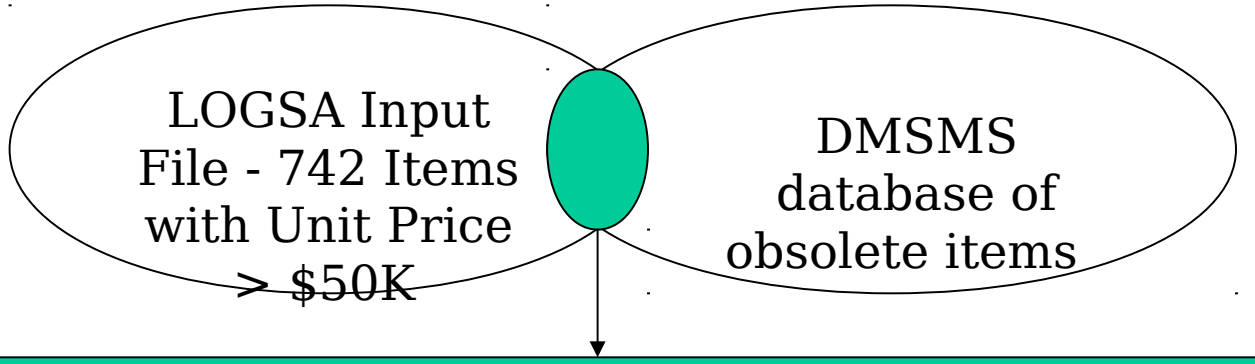
- **Action List Report**
  For M1A1 Repairable Components Over $50K

item	MDS	FY	FSC	NIIN	CON REP	Nomenclature	SOS	MRC	ARI	MAT CAT	AMDF Unit Price	Fix Underway	Remarks
1	M1A1	2003	2835	011787245	R	ENGINE MODULE REAR	AKZ	D	R	K21JE	185,701.00	YES	ECP WORK to Correct Maintance Producer
2	M1A1	2003	2835	012691234	R	ENGINE MODULE FORWA	AKZ	D	R	K21JE	213,805.00	NO	Just added to List(This Month)
3	M1A1	2003	2835	014087048	R	ENGINE,GAS TURBINE,	AKZ	D	R	K24JE	499,860.00	YES	under RECAP Program
4	M1A1	2003	2520	013259834	R	TRANSMISSION,HYDRAU	AKZ	H	R	K21JE	182,051.00	NO	Under Study for Root Cause REDEC Lead
5	M1A1	2003	1240	012939706	R	THERMAL RECEIVER WI	B14	D	E	M21JE	74,356.13	NO	Under Study for Root Cause CECOM Lead
6	M1A1	2003	1240	013800280	R	SIGHTUNIT	B14	D	R	M21JE	60,168.15	NO	Under Study for Root Cause CECOM Lead
7	M1A1	2003	2835	013681537	R	ENGINE,GAS TURBINE	AKZ	F	R	K24JE	501,677.00	NO	Under Study for Root Cause PM lead
8	M1A1	2003	2520	012108795	R	TRANSMISSION,HYDRAU	AKZ	H	R	K21JE	182,051.00	YES	OEM provided new seals
9	M1A1	2003	4320	013940257	R	PUMP UNIT,HYDRAULIC	AKZ	D		K21JE	65,708.26	YES	NEW Design changed vender
10	M1A1	2003	1220	014552118	R	ELECTRONIC UNIT,FIR	B14	D	S	M21JW	124,880.00	YES	Installing redesign Cicurt Card

Overall Rating of RED Below 80% Have Fixes Underway

>90% Have Fixes Underway	>80% BUT <90% Have Fixes Underway	<80% have Fixes Underway

Metric 3 Notional Chart



DMSMS Output File to LOGSA

- List of the 742 LOGSA provided items found to be obsolete in DMSMS DB
- Any corresponding actions by MSC, PM, etc., currently in-place to address subset of obsolete items

LOGSA determines Metric 3 Rating based on output file - % of obsolete items with actions underway (>90% is Green).

Weapon System Managers, and LOGSA - 5TL25
Submit Autopsy Reports to Program Managers (PM),

Initiative LEAD: LOGSA - Col Kurt Weidenthal II/AMXLS/(256) 955-0501 and Support: PM ALIS/Mike Verville/
(804) 734-6583

Date of Update: 28 AUG 03 **IRL Rating: 4**

UPDATE [X] NEW [ ] DELETE [ ] COMPLETED [ ]

FUNDING STATUS/ISSUES (Provide specifics including PEG and MDEP)

INITIATIVE DESCRIPTION: Submit Autopsy Reports to Program Managers (PMs), Weapon System Mgrs, and LOGSA on all combat systems major assemble failures with a FEDLOG price of $50K or more.

- LOGSA has identified funding requirements and will be programmed in the POM.
- LOGSA has internally funded the FY03 budget requirement for development of the interim solution.

KEY MILESTONE ACTIONS	MILESTONE	MILESTONE MET YES	NO
a. DA G-4 issue policy guidance on Autopsy Report preparation and submission timelines to first GO in Chain of Command and the sustainment base following confirmation of a failure.	30 Jun 03	X	
b. LOGSA and GCSS-A develop standardized automated Autopsy Report for GCSS-A inclusion by FY04. Milestones as follows:			
(1) Meet with GCSS-A to Discuss Autopsy Report Requirements	31 Mar 03	X	
(2) Program Interim Rqmts, Test, and Field Interim Solution	30 Sep 04		
(3) Develop integrated GCSS-A ERP solution.	31 May 06		

PEG: Sustain MDEP: SOTH
FY 03 – $264K (Interim) – Internally Funded
FY 04 - $127K (Sustainment) – Not Funded
FY 05 - $127K (Sustainment) – Not Funded
FY 06 - $269K (Final) – Not Funded

ACTION ITEMS NOT MET WITH REVISED MILESTONES

Action Not Met	Reason	Revised Milestone
Milestone (a)	A mechanism for the field to prepare and submit an Autopsy Report will not be available until the final solution in GCSS-A, scheduled for 31 May 06. Policy guidance should be issued in a corresponding timeframe.	31 May 06

CURRENT ASSESSMENT

[X] GREEN [ ] AMBER [ ] RED

- **SOW to develop the interim solution has been completed. Contract negotiations will be finalized in Sep 03 and work will begin.**
- **Estimated completion is Aug 04. This includes internal alpha testing and beta testing with selected external users (MSC, PM, and Field offices).**
- **MOA has been established to exchange data with the Army's Diminishing Manufacturing Sources & Materiel Shortages system to track disposition of obsolete components over $50K.**